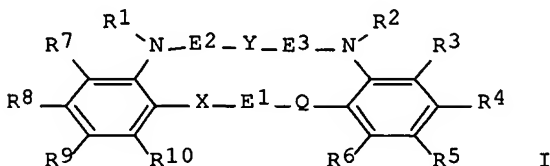


L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:978838 CAPLUS
 DN 138:74702
 TI Metal-chelating crown ether derivatives with an attached dye, reactive group or conjugated substance, their production and their use
 IN Martin, Vladimir V.; Gee, Kyle R.; Haugland, Richard P.; Diwu, Zhenjun
 PA Molecular Probes Inc, USA
 SO Brit. UK Pat. Appl., 95 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2372749	A1	20020904	GB 2001-30408	20011220
	GB 2372749	B2	20030730		
	US 2002164616	A1	20021107	US 2001-26302	20011219
PRAI	US 2000-258266P	P	20001220		
OS	MARPAT 138:74702				
GI					



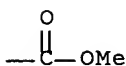
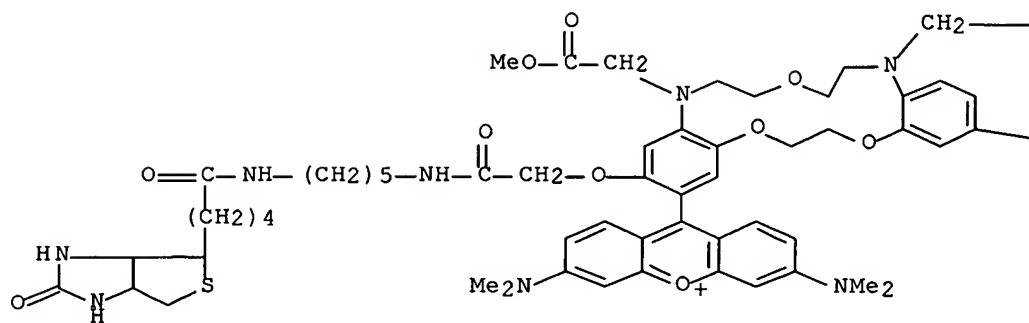
AB Crown ether dyes (I; E1, E2, E3 = org. connecting group; Q, X = O, S, optionally alkylated imino; R1, R2 = H, org. group; R3-R7 = H, halogen, azido, nitro, nitroso, amino, cyano, org. group; Y = O, S, optionally substituted imino) are obtained for use as fluorescent indicators with biomols. In an example, a diazatrioxadibenzo crown ether deriv. with an appended hydroxydifluoroxanthenone ring was prepd. which showed good intracellular fluorescence.

IT **481667-71-4P**

RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); TEM (Technical or engineered material use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (fluorescent indicator; prodn. of crown ether derivs. for use as fluorescent indicators with biomols.)

RN 481667-71-4 CAPLUS

CN Xanthylum, 3,6-bis(dimethylamino)-9-[3-[2-[[5-[[5-(hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl)-1-oxopentyl]amino]pentyl]amino]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-(9CI) (CA INDEX NAME)

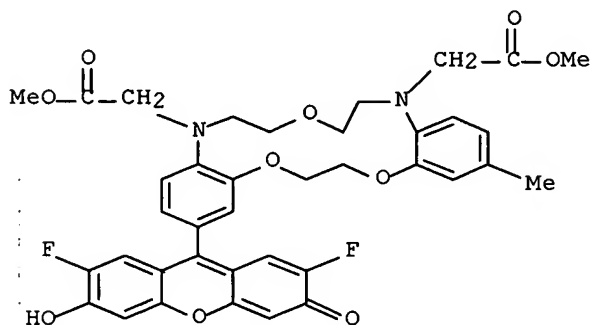


IT 481666-91-5P 481666-93-7P 481667-03-2P
 481667-17-8P 481667-26-9P 481667-44-1P
 481667-51-0P 481667-55-4P 481667-58-7P
 481681-93-0P

RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (fluorescent indicator; prodn. of crown ether derivs. for use as fluorescent indicators with biomols.)

RN 481666-91-5 CAPLUS

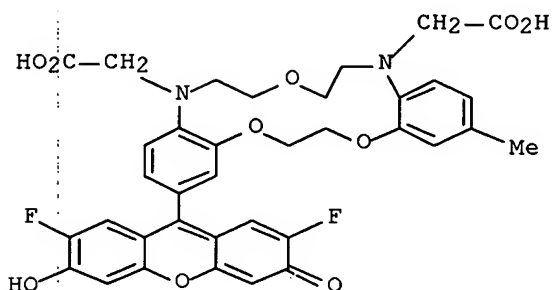
CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-(2,7-difluoro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 481666-93-7 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-(2,7-difluoro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-

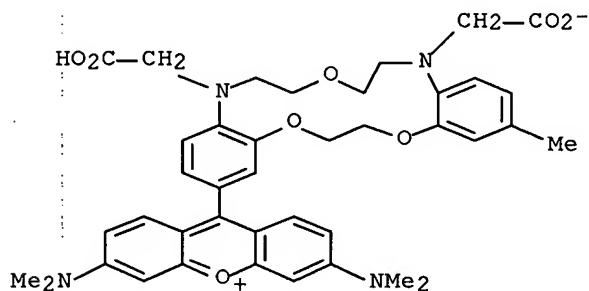
6,7,9,10,17,18-hexahydro-14-methyl-, dipotassium salt (9CI) (CA INDEX NAME)



● 2 K

RN 481667-03-2 CAPLUS

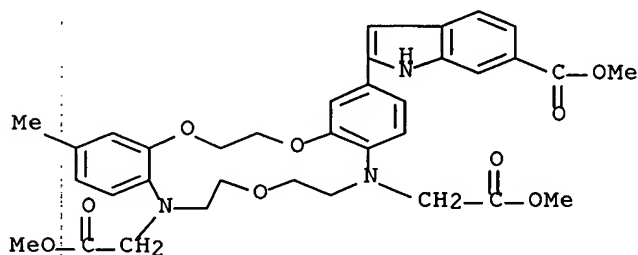
CN Xanthylum, 9-[5,11-bis(carboxymethyl)-6,7,10,11,17,18-hexahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, inner salt, potassium salt (9CI) (CA INDEX NAME)



● K

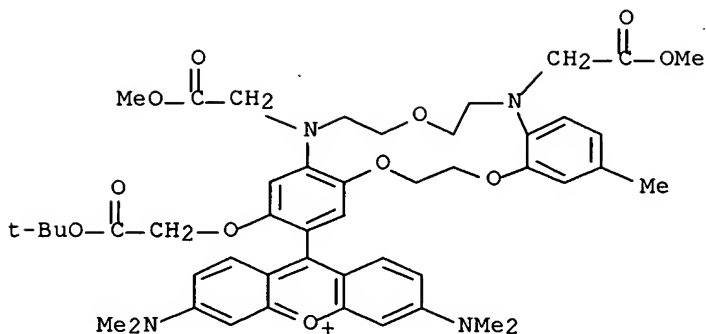
RN 481667-17-8 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 6,7,9,10,17,18-hexahydro-2-[6-(methoxycarbonyl)-1H-indol-2-yl]-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



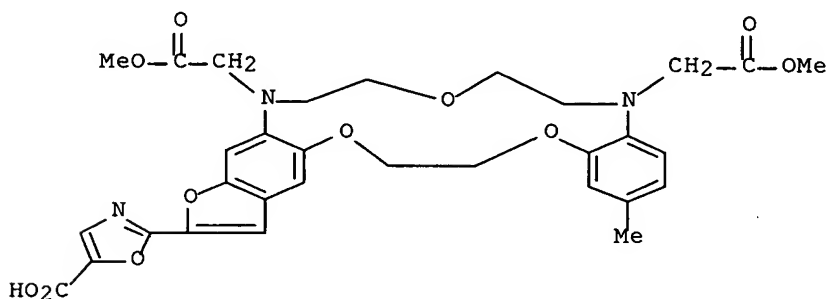
RN 481667-26-9 CAPLUS

CN Xanthylum, 3,6-bis(dimethylamino)-9-[3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-, chloride (9CI) (CA INDEX NAME)

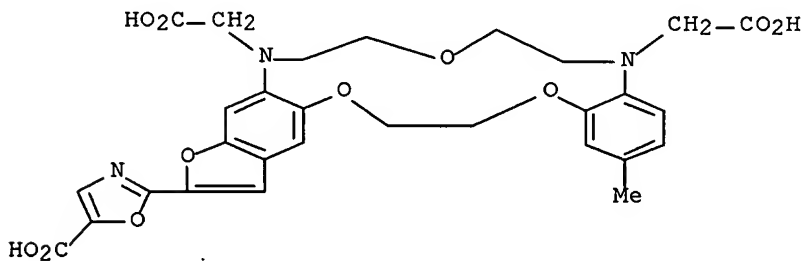


● Cl⁻

RN 481667-44-1 CAPLUS
 CN 5H,11H-Benzo[e]furo[2,3-p][1,4,10,7,13]benzotrioxadiazacyclopentadecine-5,11-diacetic acid, 14-(5-carboxy-2-oxazolyl)-6,7,9,10,18,19-hexahydro-2-methyl-, .alpha.,.alpha.'-dimethyl ester (9CI) (CA INDEX NAME)

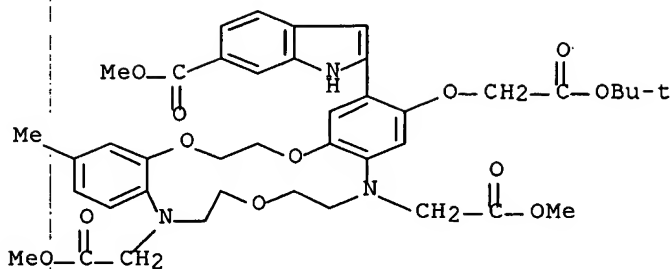


RN 481667-51-0 CAPLUS
 CN 5H,11H-Benzo[e]furo[2,3-p][1,4,10,7,13]benzotrioxadiazacyclopentadecine-5,11-diacetic acid, 14-(5-carboxy-2-oxazolyl)-6,7,9,10,18,19-hexahydro-2-methyl-, tripotassium salt (9CI) (CA INDEX NAME)



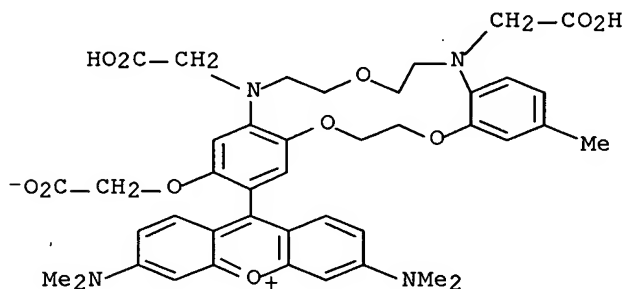
● 3 K

RN 481667-55-4 CAPLUS
 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6,7,9,10,17,18-hexahydro-2-[6-(methoxycarbonyl)-1H-indol-2-yl]-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 481667-58-7 CAPLUS

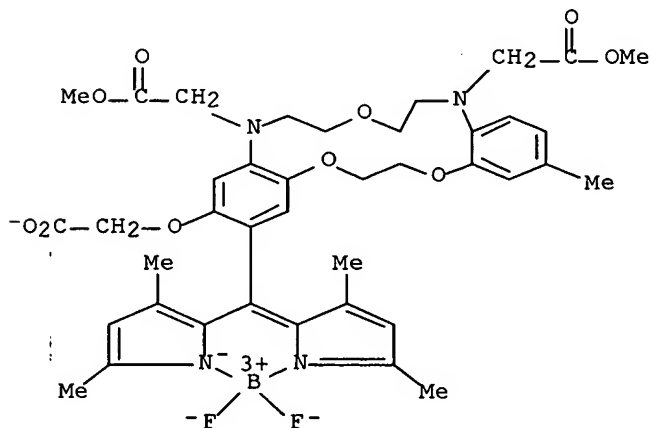
CN Xanthylum, 9-[3-(carboxymethoxy)-5,11-bis(carboxymethyl)-6,7,10,11,17,18-hexahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, inner salt, dipotassium salt (9CI) (CA INDEX NAME)



● 2 K

RN 481681-93-0 CAPLUS

CN Borate(1-), [dimethyl 3-(carboxymethoxy)-2-[(3,5-dimethyl-1H-pyrrol-2-yl-κN)(3,5-dimethyl-2H-pyrrol-2-ylidene-κN)methyl]-6,7,17,18-tetrahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11(10H)-diacetato(2-)]difluoro-, hydrogen, (T-4)- (9CI) (CA INDEX NAME)



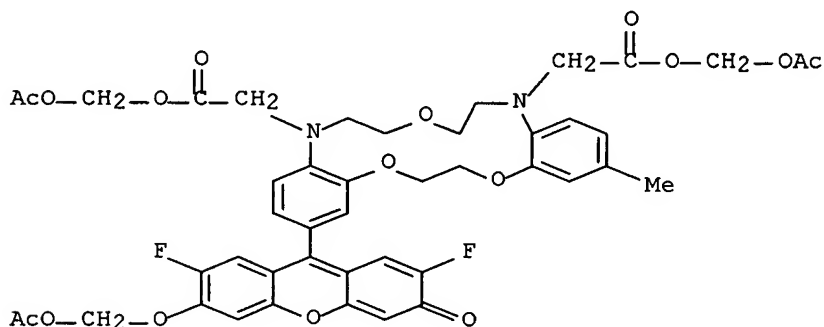
● H⁺

IT 481666-97-1P 481681-91-8P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(fluorescent indicator; prodn. of crown ether derivs. for use as fluorescent indicators with biomols.)

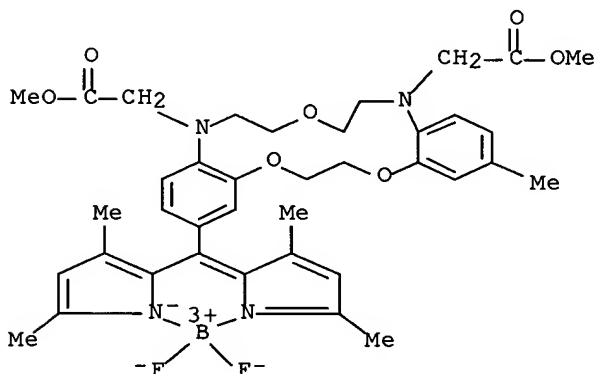
RN 481666-97-1 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-[6-[(acetyloxy)methoxy]-2,7-difluoro-3-oxo-3H-xanthene-9-yl]-6,7,9,10,17,18-hexahydro-14-methyl-, bis[(acetyloxy)methyl] ester (9CI) (CA INDEX NAME)



RN 481681-91-8 CAPLUS

CN Boron, [dimethyl 2-[(3,5-dimethyl-1H-pyrrol-2-yl-.kappa.N)(3,5-dimethyl-2H-pyrrol-2-ylidene-.kappa.N)methyl]-6,7,17,18-tetrahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11(10H)-diacetato]difluoro-, (T-4)- (9CI) (CA INDEX NAME)

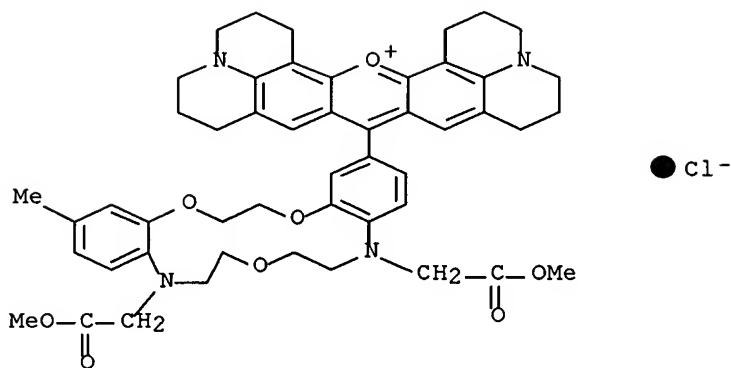


IT 481667-08-7 481667-12-3 481667-69-0

RL: TEM (Technical or engineered material use); USES (Uses)
(fluorescent indicator; prodn. of crown ether derivs. for use as
fluorescent indicators with biomols.)

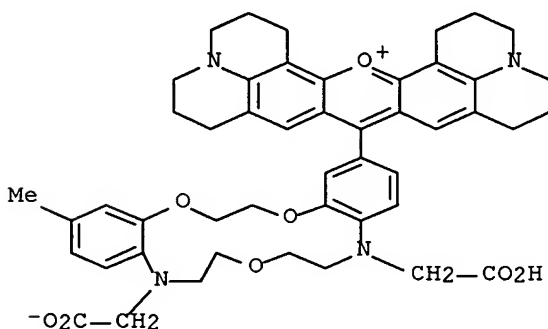
RN 481667-08-7 CAPLUS

CN 1H,5H,11H,15H-Xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium,
9-[6,7,9,10,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-
5H,11H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-
2,3,6,7,12,13,16,17-octahydro-, chloride (9CI) (CA INDEX NAME)



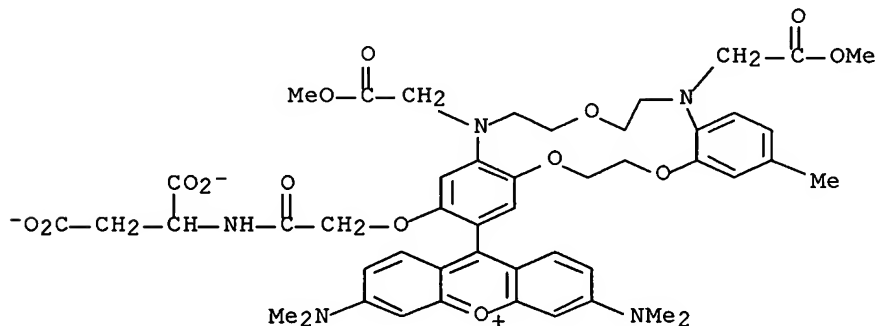
RN 481667-12-3 CAPLUS

CN 1H,5H,11H,15H-Xantheno[2,3,4-ij:5,6,7-i'j']diquinolizin-18-ium,
9-[5,11-bis(carboxymethyl)-6,7,10,11,17,18-hexahydro-14-methyl-5H,9H-
dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-
2,3,6,7,12,13,16,17-octahydro-, inner salt, potassium salt (9CI) (CA
INDEX NAME)



RN 481667-69-0 CAPLUS

CN Xanthylium, 9-[3-[2-[(1,2-dicarboxyethyl)amino]-2-oxoethoxy]-
6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-
5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-
bis(dimethylamino)-, bis(inner salt) (9CI) (CA INDEX NAME)

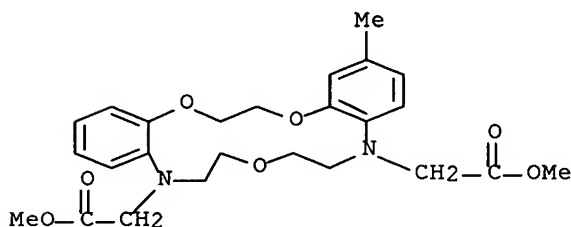


IT 481666-72-2P 481666-74-4P 481666-78-8P
481666-80-2P 481666-89-1P 481666-99-3P

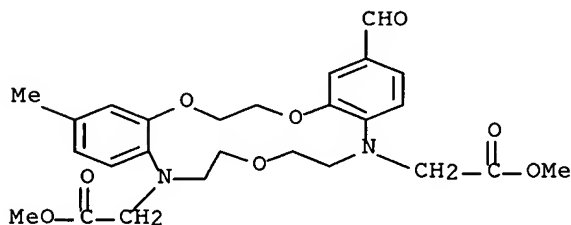
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 481667-32-7P 481667-33-8P 481667-38-3P
 481667-49-6P 481667-54-3P 481667-56-5P
 481667-64-5P 481667-65-6P 481681-92-9P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation);
 RACT (Reactant or reagent)
 (intermediate; prodn. of crown ether derivs. for use as fluorescent
 indicators with biomols.)

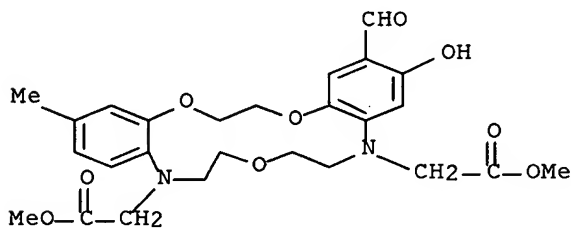
RN 481666-72-2 CAPLUS
 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-
 diacetic acid, 6,7,9,10,17,18-hexahydro-2-methyl-, dimethyl ester (9CI)
 (CA INDEX NAME)



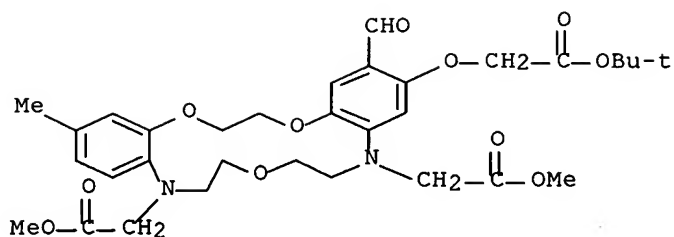
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 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-
 diacetic acid, 2-formyl-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl
 ester (9CI) (CA INDEX NAME)



RN 481666-78-8 CAPLUS
 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-
 diacetic acid, 2-formyl-6,7,9,10,17,18-hexahydro-3-hydroxy-14-methyl-,
 dimethyl ester (9CI) (CA INDEX NAME)

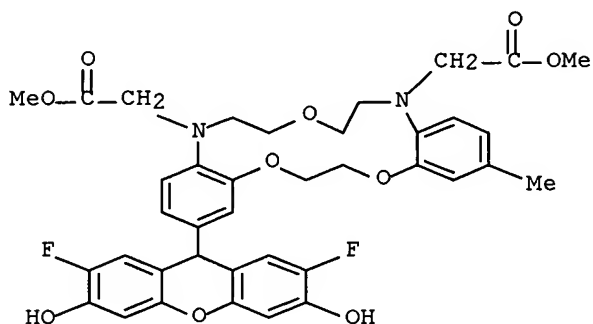


RN 481666-80-2 CAPLUS
 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-
 diacetic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-2-formyl-
 6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX
 NAME)



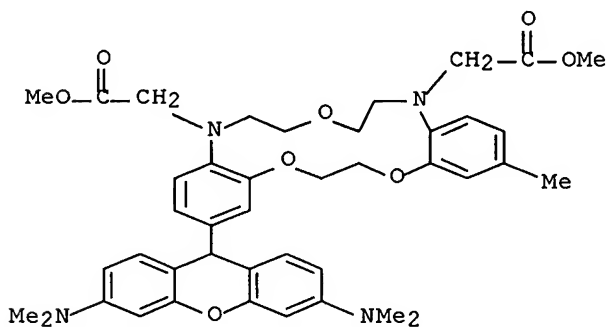
RN 481666-89-1 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-(2,7-difluoro-3,6-dihydroxy-9H-xanthen-9-yl)-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



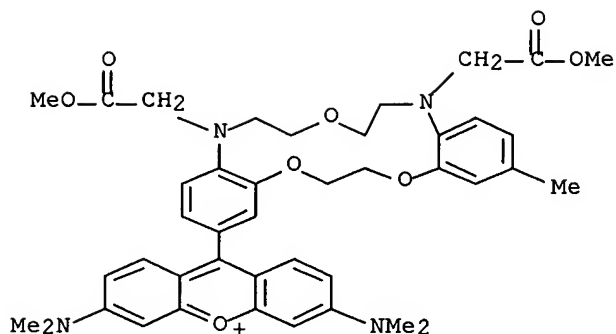
RN 481666-99-3 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-[3,6-bis(dimethylamino)-9H-xanthen-9-yl]-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 481667-01-0 CAPLUS

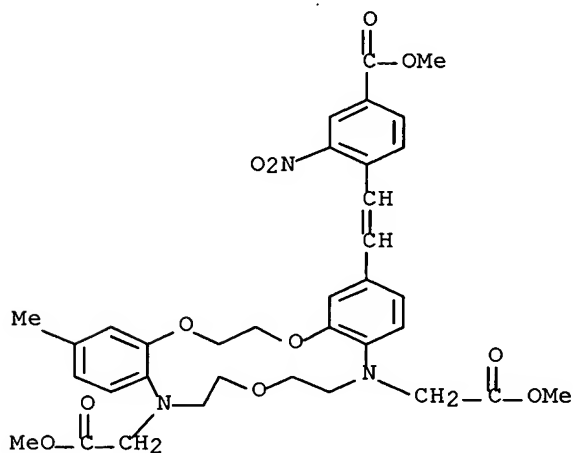
CN Xanthylium, 3,6-bis(dimethylamino)-9-[6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

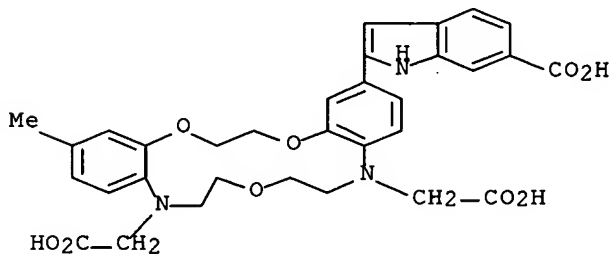
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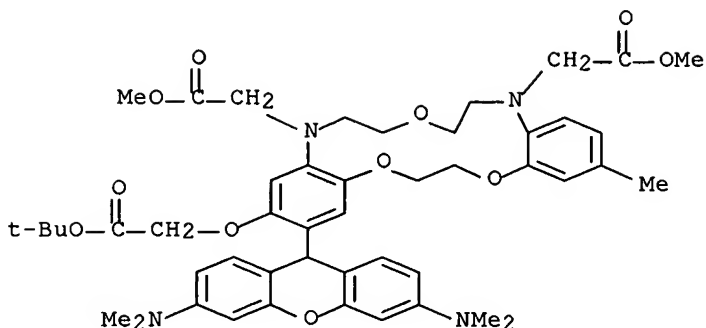
RN 481667-20-3 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-(6-carboxy-1H-indol-2-yl)-6,7,9,10,17,18-hexahydro-14-methyl-(9CI) (CA INDEX NAME)



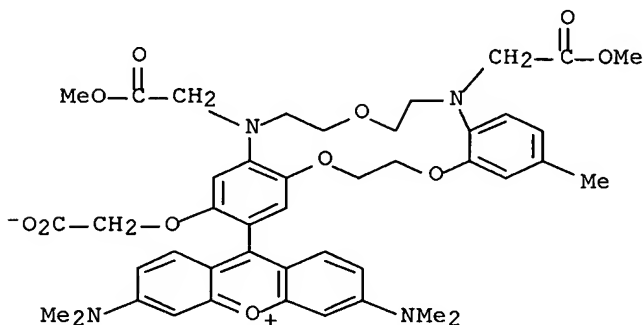
RN 481667-25-8 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-[3,6-bis(dimethylamino)-9H-xanthen-9-yl]-3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



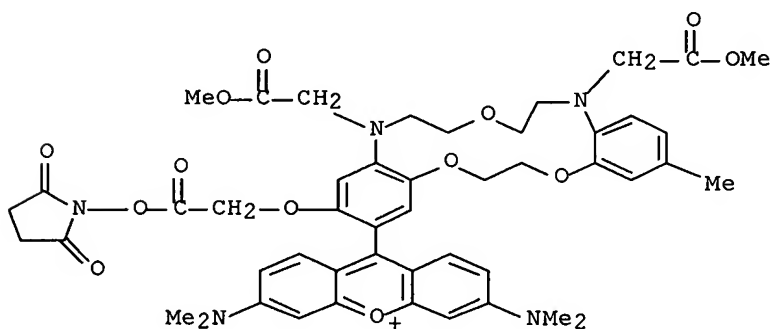
RN 481667-27-0 CAPLUS

CN Xanthylum, 9-[3-(carboxymethoxy)-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



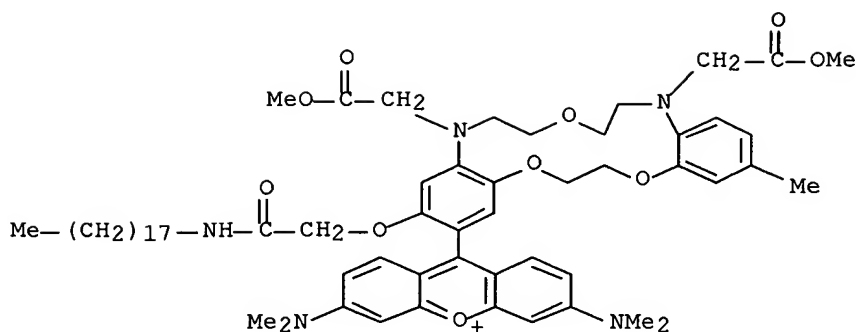
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CN Xanthylum, 3,6-bis(dimethylamino)-9-[3-[2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-(9CI) (CA INDEX NAME)



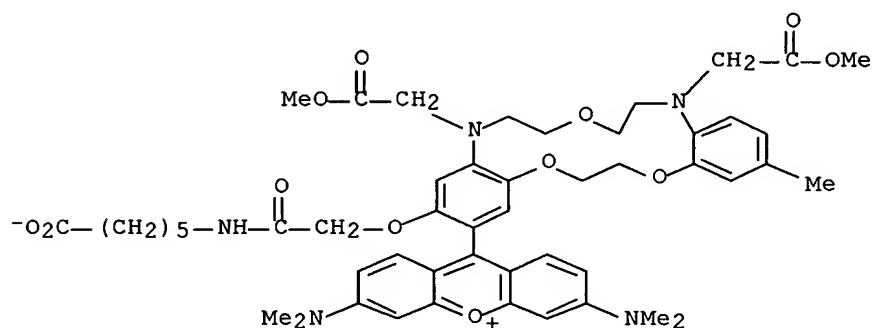
RN 481667-32-7 CAPLUS

CN Xanthylum, 3,6-bis(dimethylamino)-9-[6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-3-[2-(octadecylamino)-2-oxoethoxy]-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-(9CI) (CA INDEX NAME)



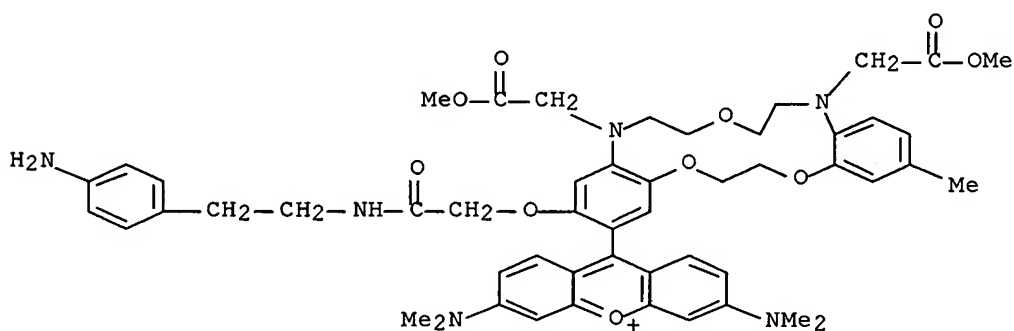
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CN Xanthylium, 9-[3-[2-[(5-carboxypentyl)amino]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



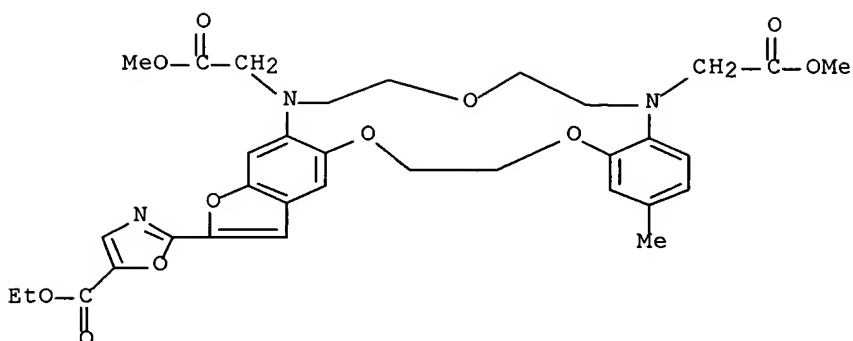
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CN Xanthylium, 9-[3-[2-[[2-(4-aminophenyl)ethyl]amino]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)- (9CI) (CA INDEX NAME)



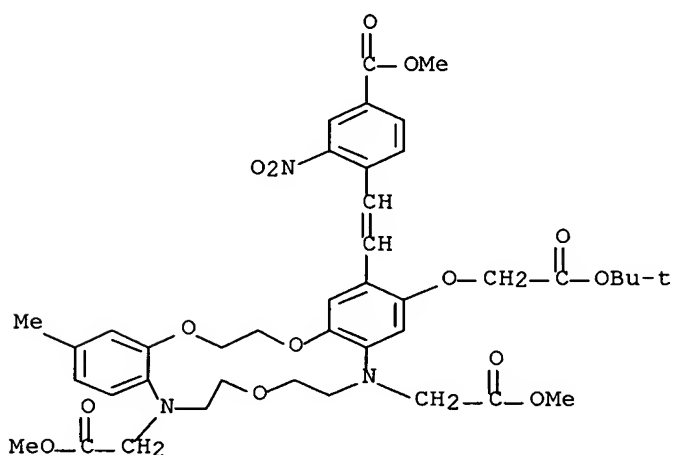
RN 481667-49-6 CAPLUS

CN 5H,11H-Benzo[e]furo[2,3-p][1,4,10,7,13]benzotrioxadiazacyclopentadecine-5,11-diacetic acid, 14-[5-(ethoxycarbonyl)-2-oxazolyl]-6,7,9,10,18,19-hexahydro-2-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



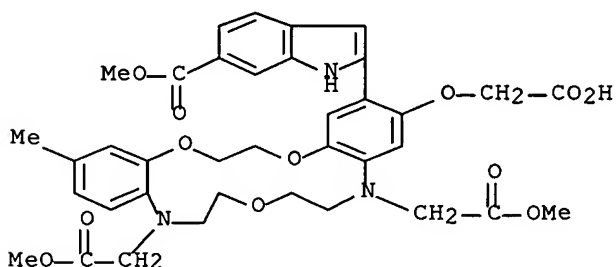
RN 481667-54-3 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 3-[2-(1,1-dimethylethoxy)-2-oxoethoxy]-6,7,9,10,17,18-hexahydro-2-[2-[4-(methoxycarbonyl)-2-nitrophenyl]ethenyl]-14-methyl-, dimethyl ester(9CI) (CA INDEX NAME)



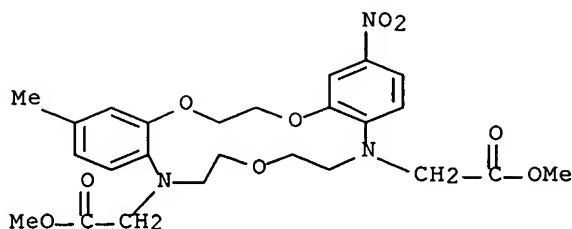
RN 481667-56-5 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 3-(carboxymethoxy)-6,7,9,10,17,18-hexahydro-2-[6-(methoxycarbonyl)-1H-indol-2-yl]-14-methyl-, .alpha.,.alpha.'-dimethyl ester (9CI) (CA INDEX NAME)



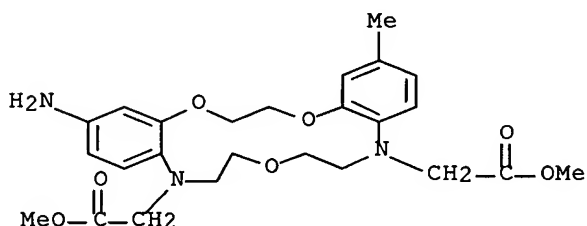
RN 481667-64-5 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 6,7,9,10,17,18-hexahydro-2-methyl-14-nitro-, dimethyl ester (9CI) (CA INDEX NAME)



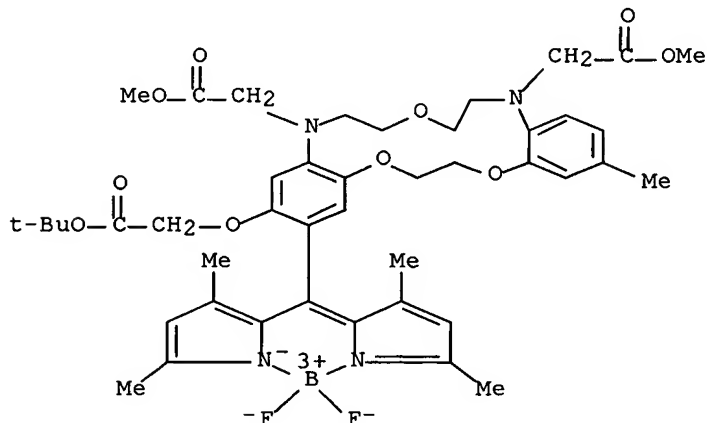
RN 481667-65-6 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-amino-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 481681-92-9 CAPLUS

CN Boron, [dimethyl 3-[1-(1,1-dimethylethoxy)-2-oxoethoxy]-2-[(3,5-dimethyl-1H-pyrrol-2-yl-.kappa.N)(3,5-dimethyl-2H-pyrrol-2-ylidene-.kappa.N)methyl]-6,7,17,18-tetrahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11(10H)-diacetato]difluoro-, (T-4)- (9CI) (CA INDEX NAME)



IT 481666-95-9P 481667-05-4P 481667-23-6P

481667-28-1P 481667-35-0DP, reaction products with aminodextran 481667-35-0P 481667-40-7P

481667-46-3P 481667-53-2P 481667-57-6P

481667-59-8P 481667-66-7P 481681-94-1P

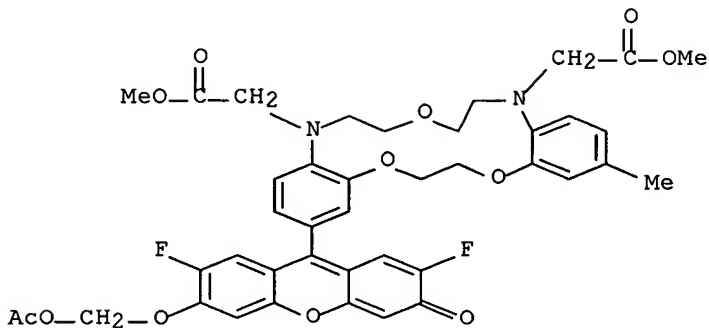
RL: IMF (Industrial manufacture); PREP (Preparation)

(prodn. of crown ether derivs. for use as fluorescent indicators with biomols.)

RN 481666-95-9 CAPLUS

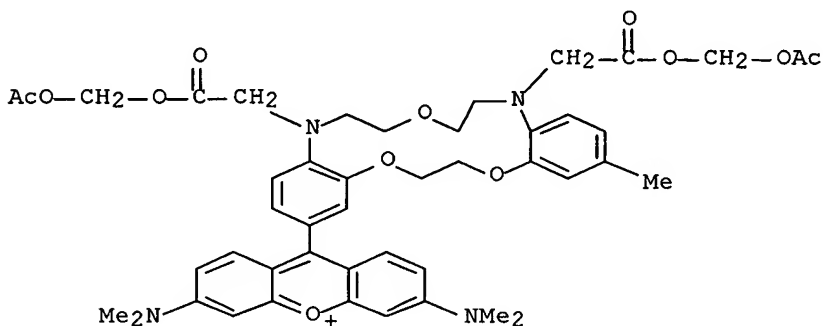
CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-[6-[(acetyloxy)methoxy]-2,7-difluoro-3-oxo-3H-xanthen-9-yl]-6,7,9,10,17,18-hexahydro-14-methyl-, dimethyl ester (9CI) (CA

INDEX NAME)



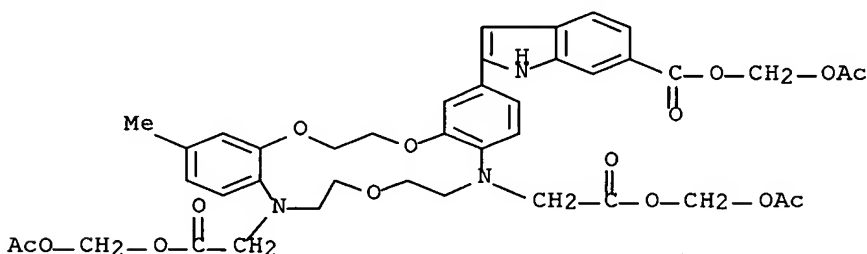
RN 481667-05-4 CAPLUS

CN Xanthylum, 9-[5,11-bis[2-[(acetyloxy)methoxy]-2-oxoethyl]-6,7,10,11,17,18-hexahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-(9CI) (CA INDEX NAME)



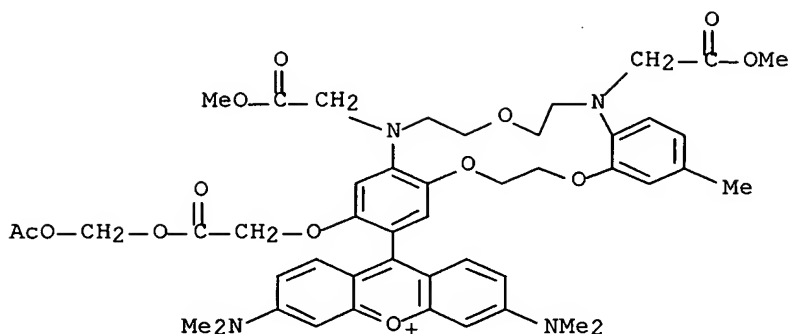
RN 481667-23-6 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-[6-[[[(acetyloxy)methoxy]carbonyl]-1H-indol-2-yl]-6,7,9,10,17,18-hexahydro-14-methyl-, bis[(acetyloxy)methyl] ester (9CI) (CA INDEX NAME)



RN 481667-28-1 CAPLUS

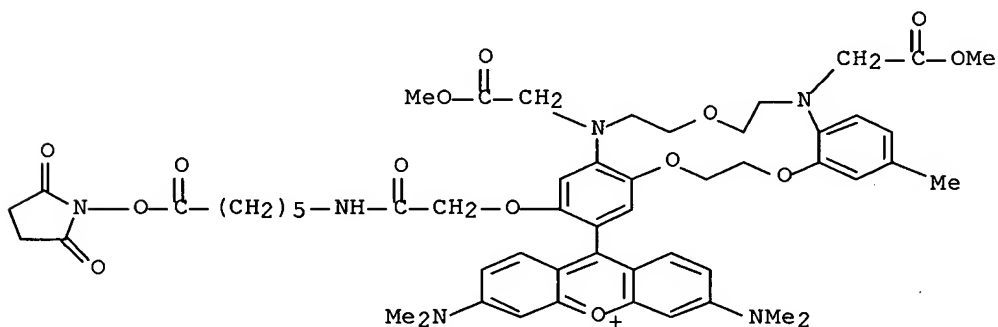
CN Xanthylum, 9-[3-[2-[(acetyloxy)methoxy]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, bromide (9CI) (CA INDEX NAME)



● Br⁻

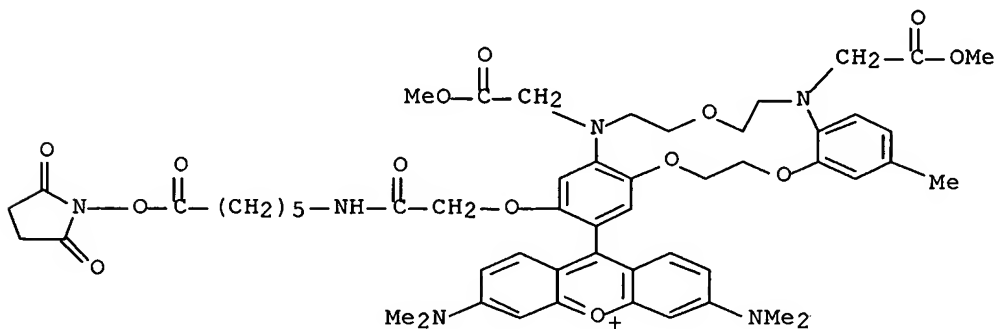
RN 481667-35-0 CAPLUS

CN Xanthylum, 3,6-bis(dimethylamino)-9-[3-[2-[[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]amino]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]- (9CI) (CA INDEX NAME)



RN 481667-35-0 CAPLUS

CN Xanthylum, 3,6-bis(dimethylamino)-9-[3-[2-[[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]amino]-2-oxoethoxy]-6,7,10,11,17,18-hexahydro-5,11-bis(2-methoxy-2-oxoethyl)-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]- (9CI) (CA INDEX NAME)

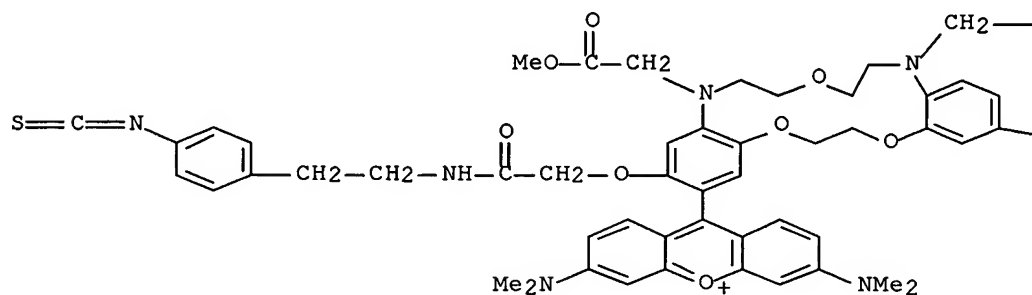


RN 481667-40-7 CAPLUS

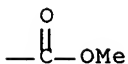
CN Xanthylum, 3,6-bis(dimethylamino)-9-[6,7,10,11,17,18-hexahydro-3-[2-[[2-(4-isothiocyanatophenyl)ethyl]amino]-2-oxoethoxy]-5,11-bis(2-

methoxy-2-oxoethyl)-14-methyl-5H,9H-
 dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]- (9CI) (CA
 INDEX NAME)

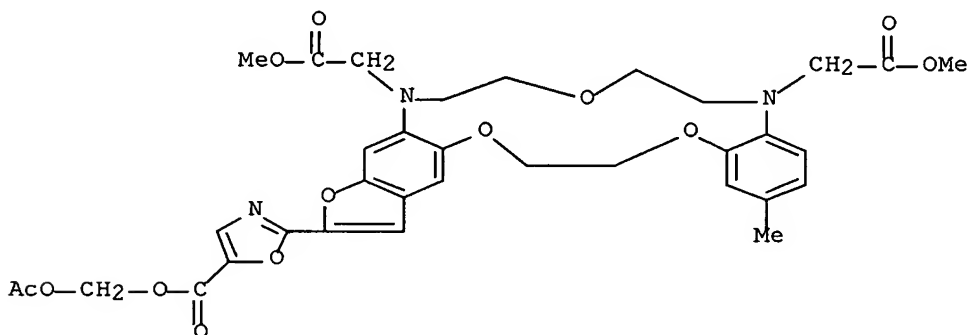
PAGE 1-A



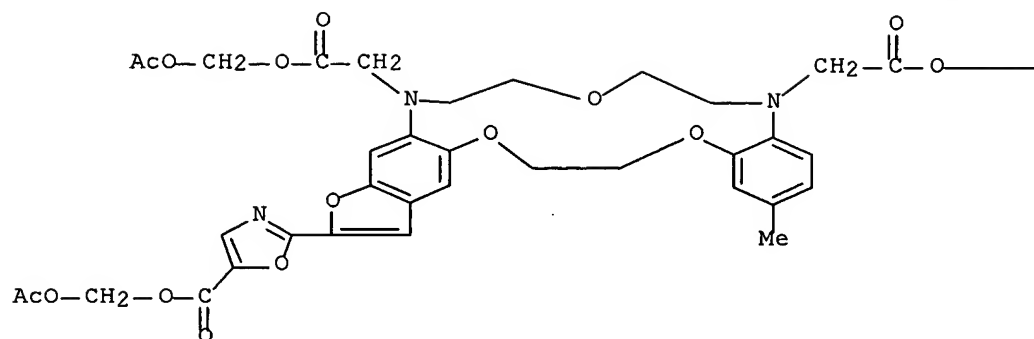
PAGE 1-B



RN 481667-46-3 CAPLUS
 CN 5H,11H-Benzo[e]furo[2,3-p][1,4,10,7,13]benzotrioxadiazacyclopentadecine-
 5,11-diacetic acid, 14-[5-[[[(acetyloxy)methoxy]carbonyl]-2-oxazolyl]-
 6,7,9,10,18,19-hexahydro-2-methyl-, dimethyl ester (9CI) (CA INDEX
 NAME)

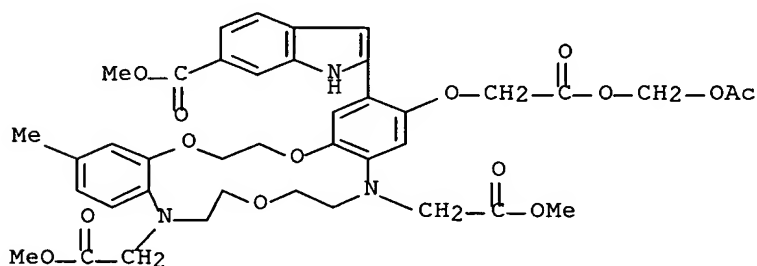


RN 481667-53-2 CAPLUS
 CN 5H,11H-Benzo[e]furo[2,3-p][1,4,10,7,13]benzotrioxadiazacyclopentadecine-
 5,11-diacetic acid, 14-[5-[[[(acetyloxy)methoxy]carbonyl]-2-oxazolyl]-
 6,7,9,10,18,19-hexahydro-2-methyl-, bis[(acetyloxy)methyl] ester (9CI)
 (CA INDEX NAME)

—CH₂—OAc

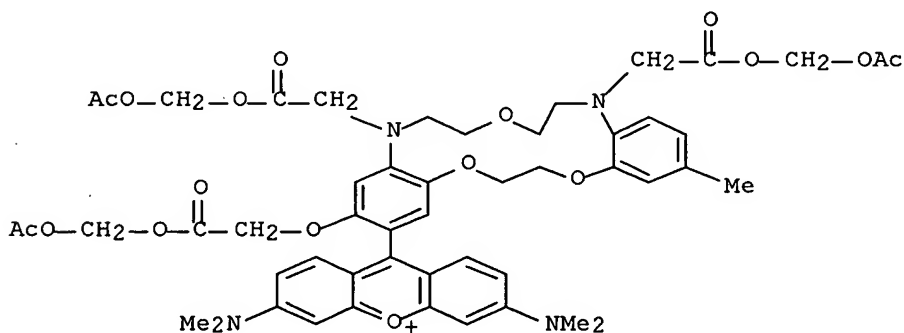
RN 481667-57-6 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 3-[2-[(acetyloxy)methoxy]-2-oxoethoxy]-6,7,9,10,17,18-hexahydro-2-[6-(methoxycarbonyl)-1H-indol-2-yl]-14-methyl-, dimethyl ester (9CI) (CA INDEX NAME)



RN 481667-59-8 CAPLUS

CN Xanthylum, 9-[3-[2-[(acetyloxy)methoxy]-2-oxoethoxy]-5,11-bis[2-[(acetyloxy)methoxy]-2-oxoethyl]-6,7,10,11,17,18-hexahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-yl]-3,6-bis(dimethylamino)-, bromide (9CI) (CA INDEX NAME)

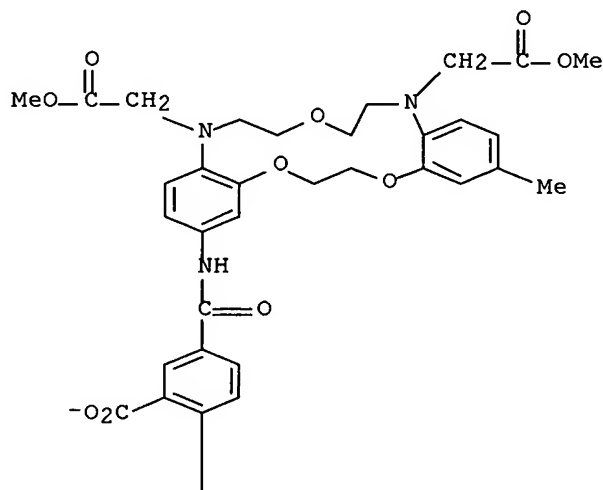
● Br⁻

RN 481667-66-7 CAPLUS

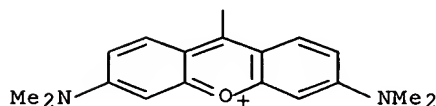
CN Xanthylum, 9-[2-carboxy-4-[[[6,7,10,11,17,18-hexahydro-5,11-bis(2-

methoxy-2-oxoethyl)-14-methyl-5H,9H-
dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecin-2-
yl]amino]carbonyl]phenyl]-3,6-bis(dimethylamino)-, inner salt
(9CI) (CA INDEX NAME)

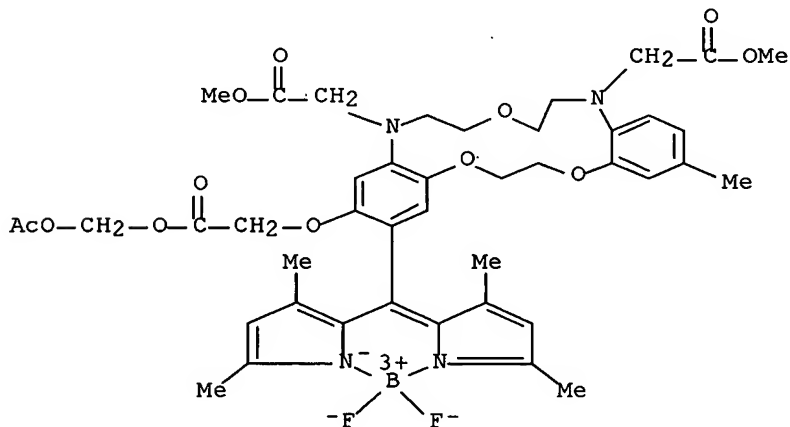
PAGE 1-A



PAGE 2-A

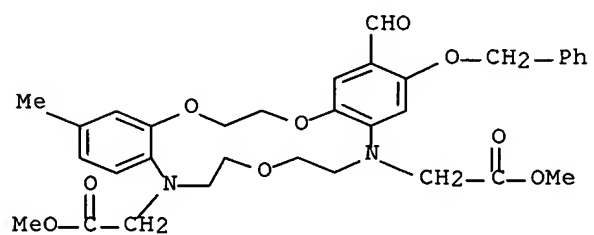


RN 481681-94-1 CAPLUS
CN Boron, [dimethyl 3-[2-[(acetyloxy)methoxy]-2-oxoethoxy]-2-[(3,5-dimethyl-1H-pyrrol-2-yl-.kappa.N) (3,5-dimethyl-2H-pyrrol-2-ylidene-.kappa.N)methyl]-6,7,17,18-tetrahydro-14-methyl-5H,9H-dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11(10H)-diacetato]difluoro-, (T-4)- (9CI) (CA INDEX NAME)

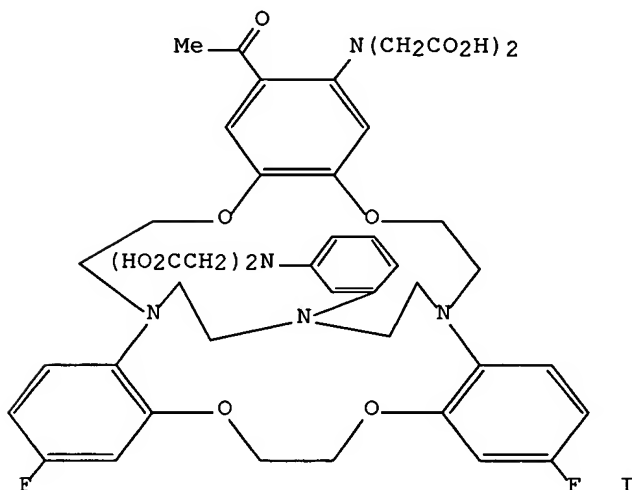


IT **481666-76-6**
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prodn. of crown ether derivs. for use as
fluorescent indicators with biomols.)
RN 481666-76-6 CAPLUS

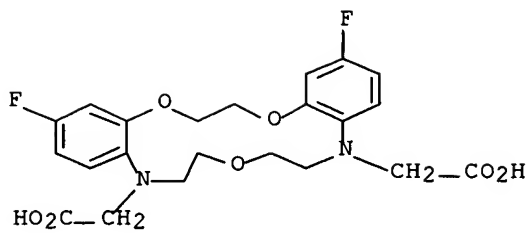
CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2-formyl-6,7,9,10,17,18-hexahydro-14-methyl-3-(phenylmethoxy)-, dimethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1987:115945 CAPLUS
 DN 106:115945
 TI Design of an indicator of intracellular free sodium concentration using
 fluorine-19 NMR
 AU Smith, Gerry A.; Morris, Peter G.; Hesketh, T. Robin; Metcalfe, James C.
 CS Dep. Biochem., Cambridge, CB2 1QW, UK
 SO Biochimica et Biophysica Acta (1986), 889(1), 72-83
 CODEN: BBACAQ; ISSN: 0006-3002
 DT Journal
 LA English
 GI



AB The development is described of a Na chelator with appropriate
 properties for an indicator of intracellular free Na concn. ([Na]i).
 The new indicator, FCryp-1 (I), is a tribenzo deriv. of the parent
 (2:2:1) cryptand structure, incorporating the same F-substituted dibenzo
 19F-NMR reporter group as the free [Ca2+] indicator, 5FBAPTA. I has
 appropriate affinity for Na+ (KNa = 101.3 M⁻¹) and selectivity over
 other intracellular cations (KK; KCa; KMg < 10⁻¹ M⁻¹) for a [Na]i
 indicator. There is a 19F-NMR chem. shift of 2.00 ppm between free I and
 the Na-I complex, which provides a direct read out of free [Na]. I
 carries 4 carboxylate groups to confer aq. soly., which can be
 esterified with acetoxymethyl groups to render the indicator membrane
 permeant. Expts. on pig lymphocytes loaded with I gave an indicated
 [Na]i of 13.8 mM. The I structure can also be readily modified to
 provide fluorescent [Na]i indicators.
 IT **107140-93-2P**
 RL: PREP (Preparation) (prepn. and cation binding consts. of)
 RN 107140-93-2 CAPLUS
 CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-
 diacetic acid, 2,14-difluoro-6,7,9,10,17,18-hexahydro- (9CI) (CA INDEX
 NAME)

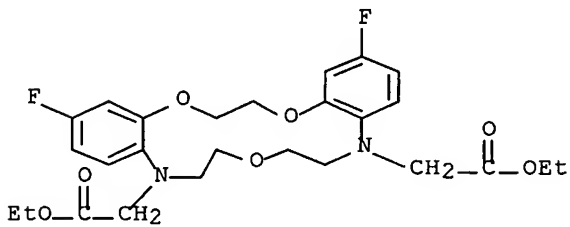


IT 107140-89-6P

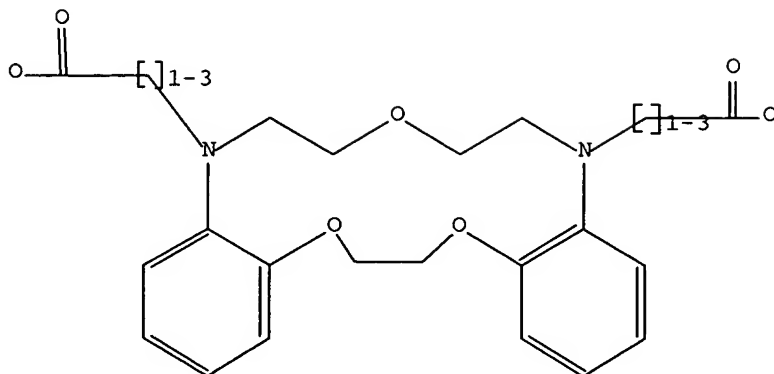
RL: PREP (Preparation) (prepn. of)

RN 107140-89-6 CAPLUS

CN 5H,11H-Dibenzo[e,n][1,4,10,7,13]trioxadiazacyclopentadecine-5,11-diacetic acid, 2,14-difluoro-6,7,9,10,17,18-hexahydro-, diethyl ester (9CI) (CA INDEX NAME)



=> d l1; d his; log y
L1 HAS NO ANSWERS
L1 STR



G1 O,S,N

Structure attributes must be viewed using STN Express query preparation.

(FILE 'HOME' ENTERED AT 19:46:43 ON 14 AUG 2003)

FILE 'REGISTRY' ENTERED AT 19:47:02 ON 14 AUG 2003

L1 STRUCTURE UPLOADED
L2 2 S L1
L3 52 S L1 FUL

FILE 'CAPLUS' ENTERED AT 19:47:32 ON 14 AUG 2003

L4 2 S L3

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	9.49	157.85
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-1.30	-1.30

STN INTERNATIONAL LOGOFF AT 19:48:05 ON 14 AUG 2003